

# MODIS and VIIRS TEB Performance

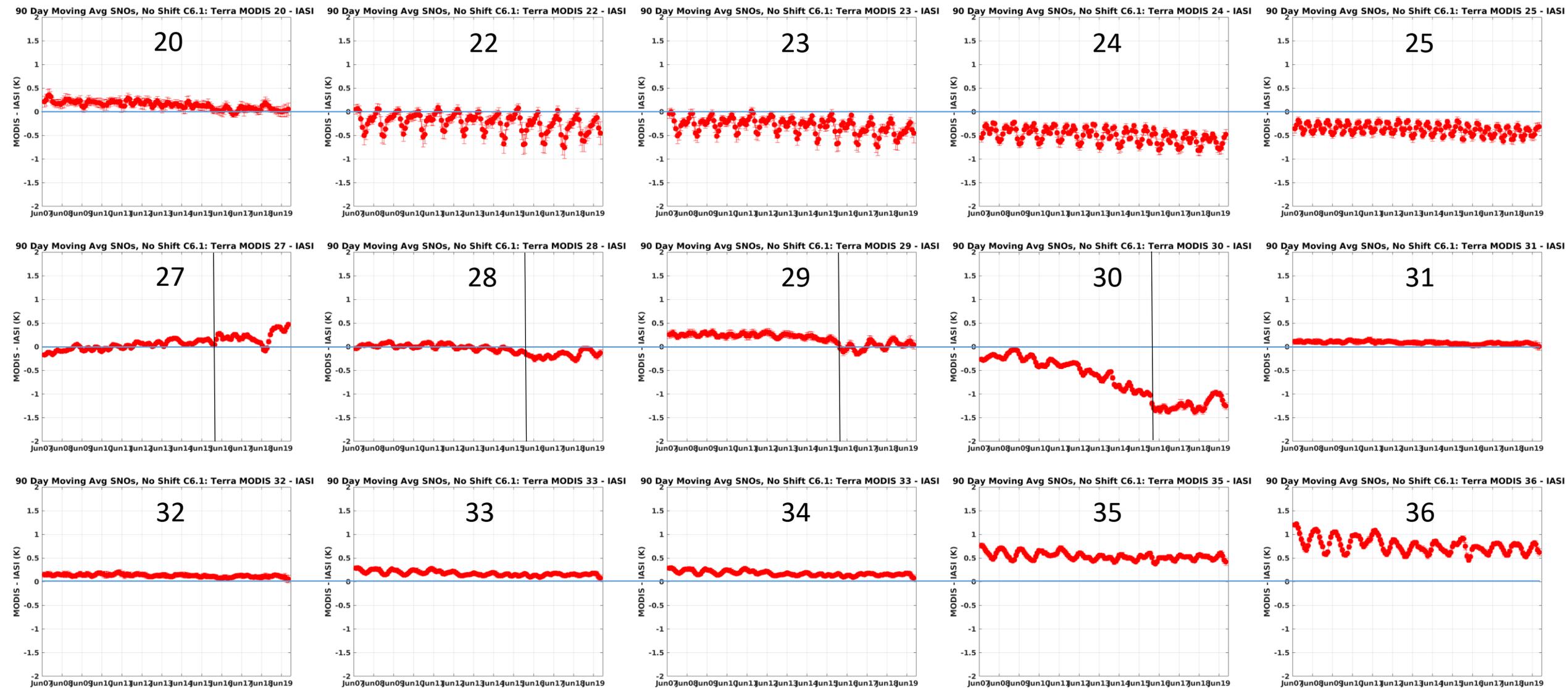
Chris Moeller, Greg Quinn

University of Wisconsin

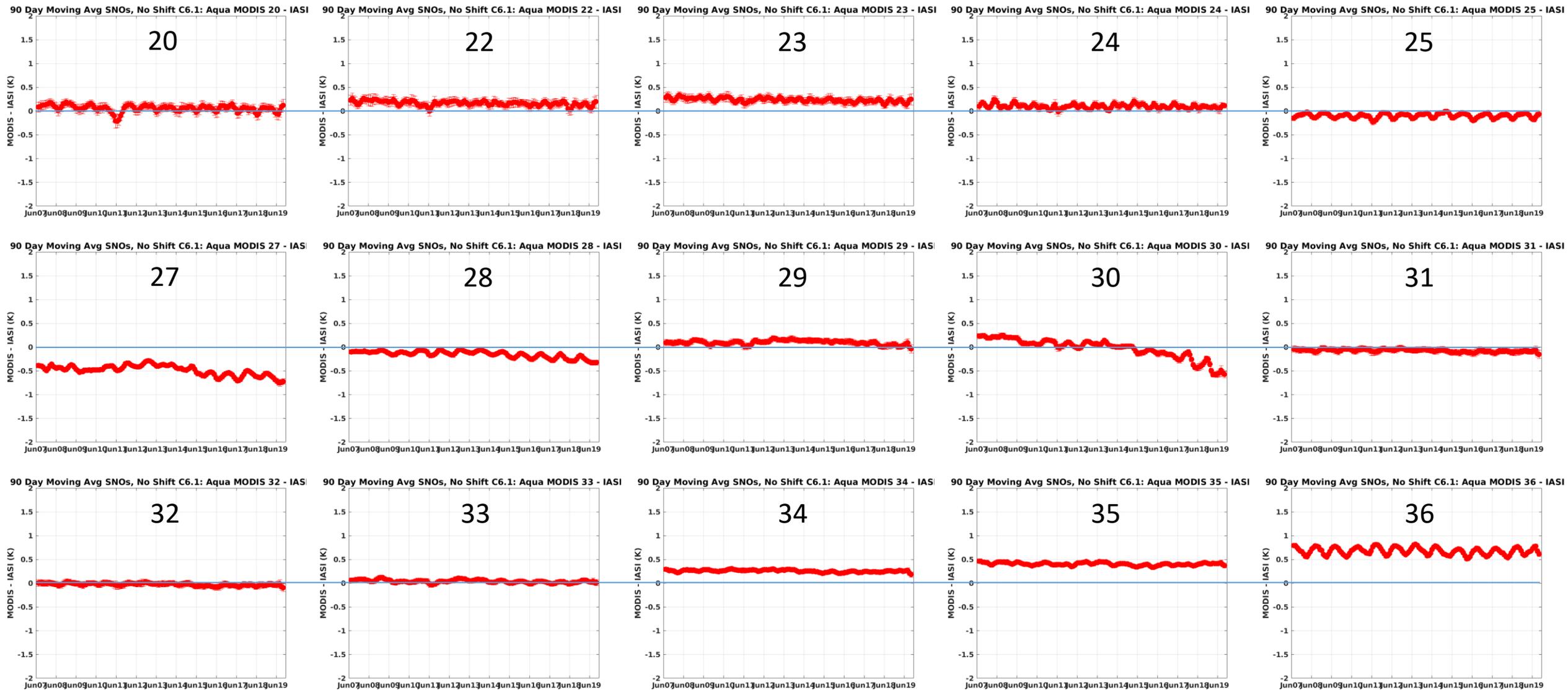
MODIS/VIIRS Calibration Workshop

November 18, 2019

# Terra MODIS (C6.1) SNOs with MetOp-A IASI

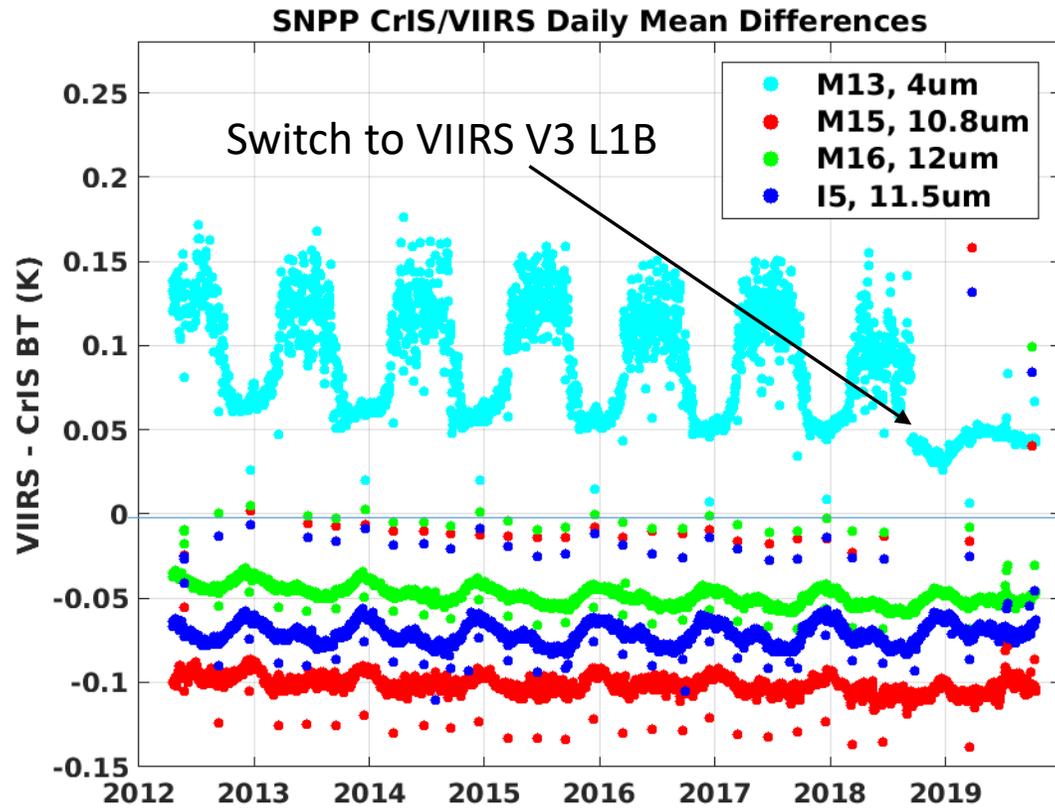


# Aqua MODIS (C6.1) SNOs with MetOp-A IASI

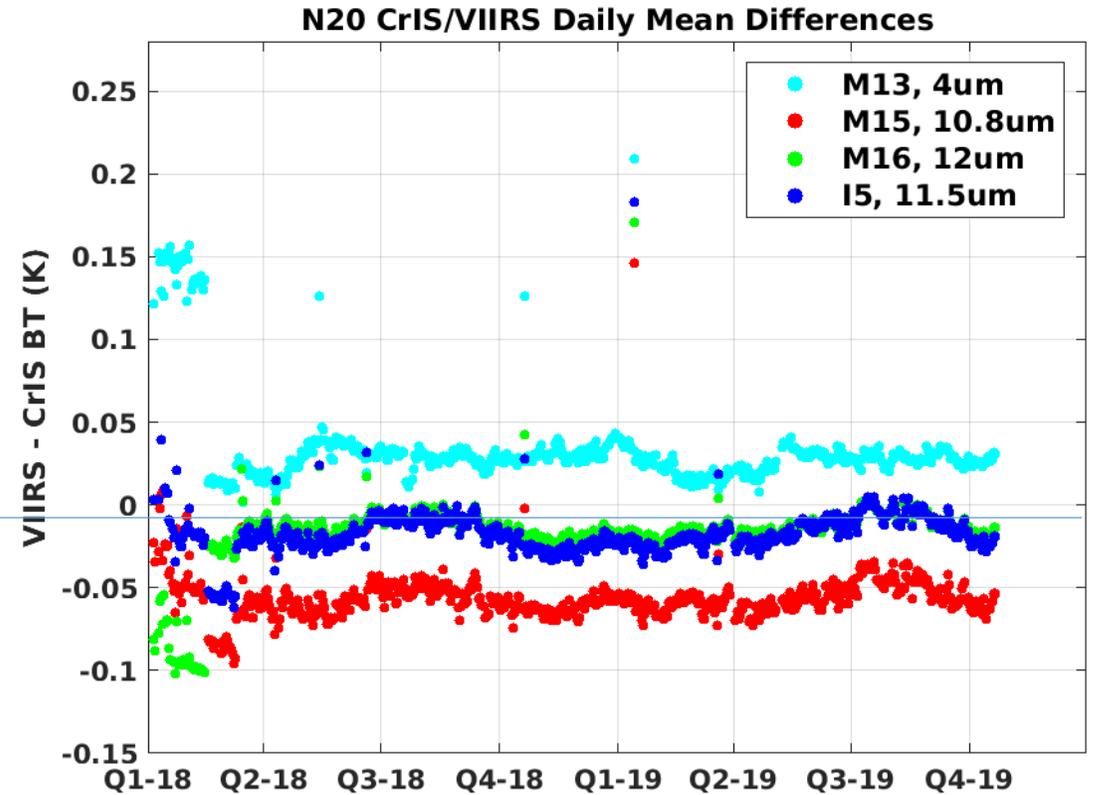


# VIIRS – CrIS Comparisons

## SNPP

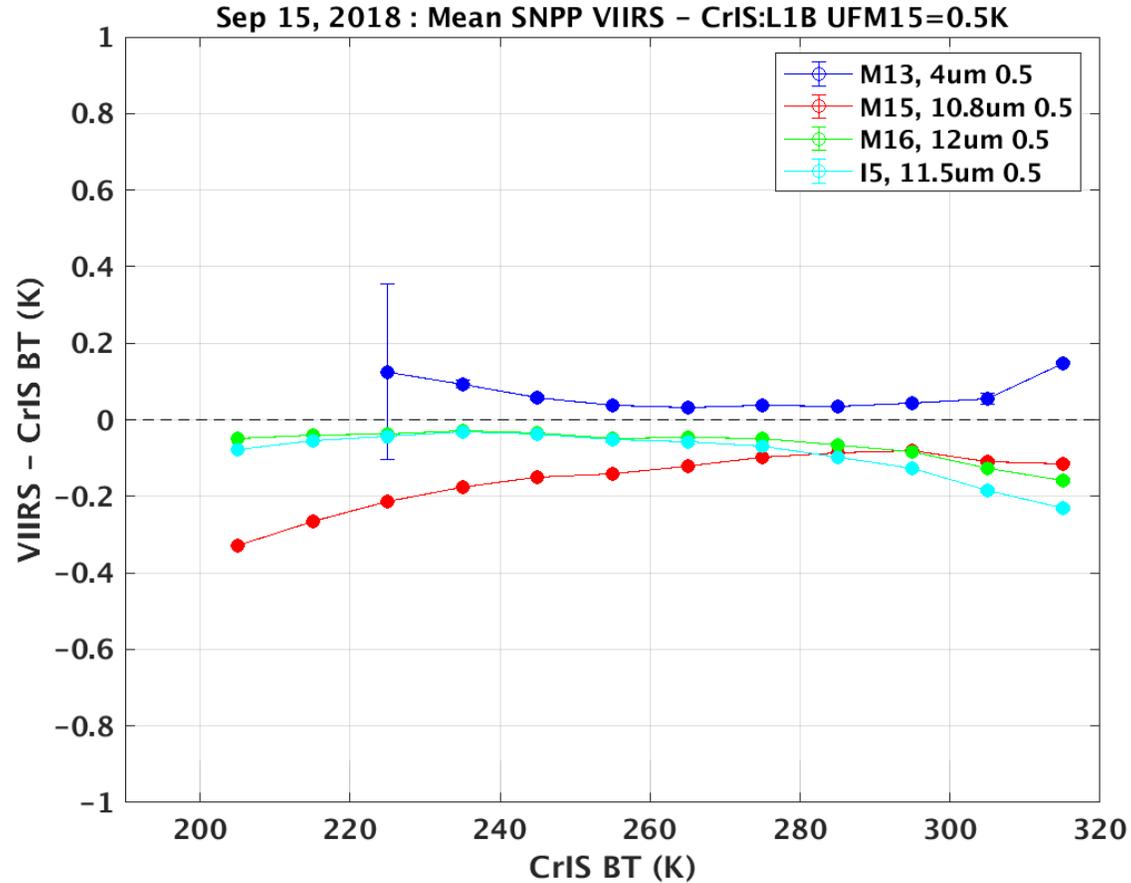


## N-20

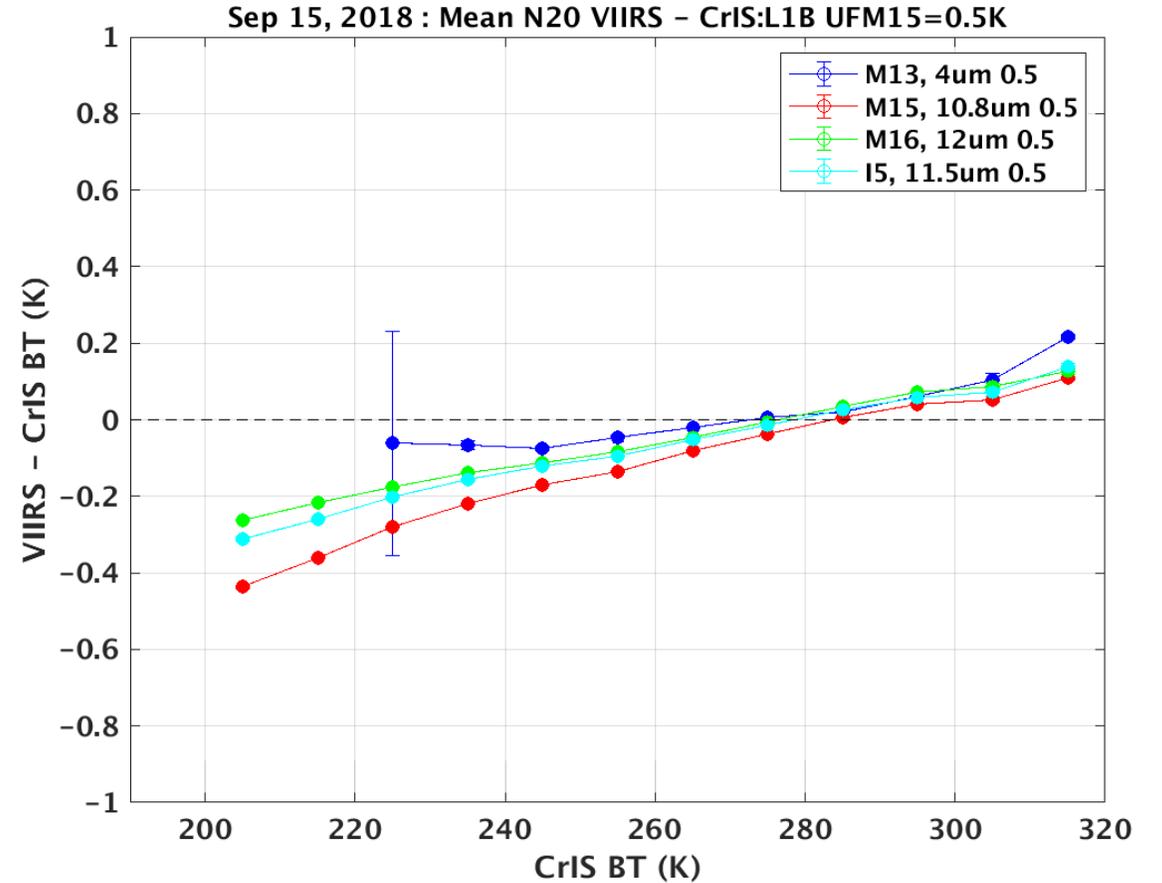


# VIIRS – CrIS Comparisons

## SNPP



## N-20

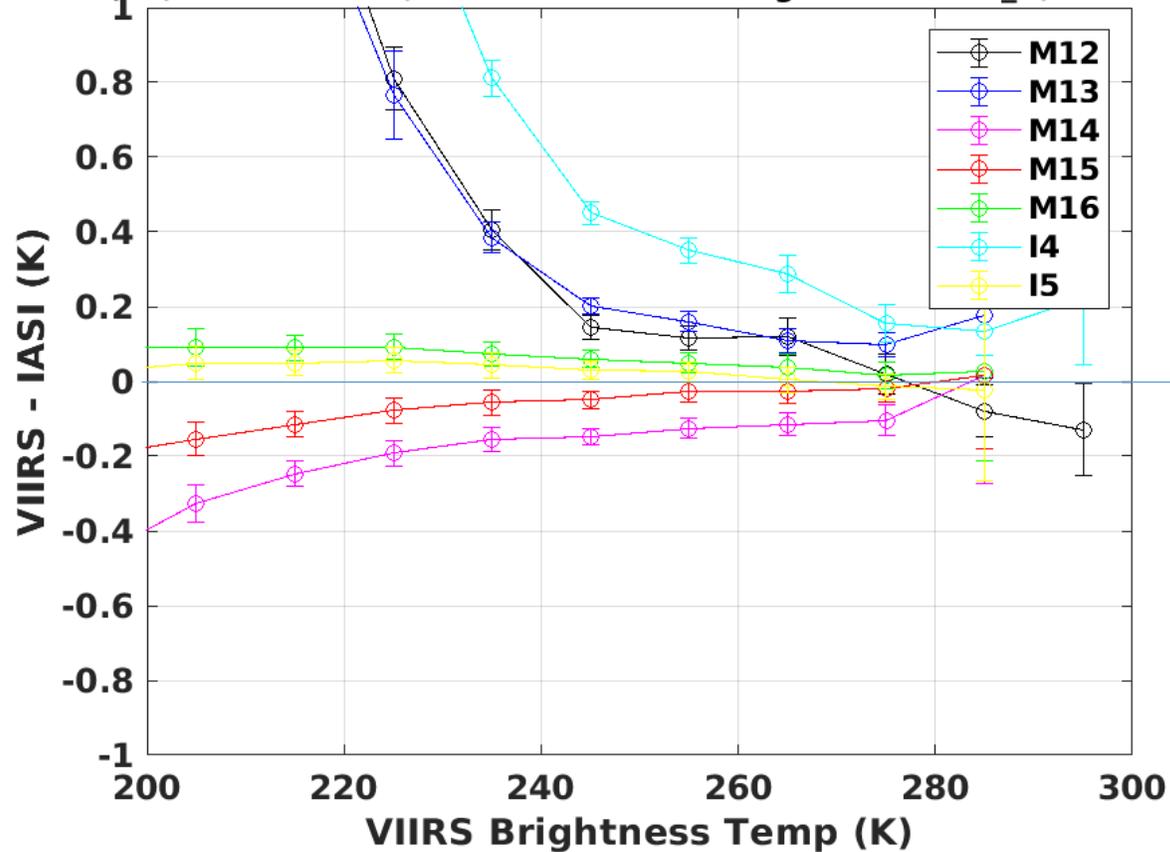


A LUT correction is planned for N-20 L1B processing that will reduce scene temperature dependence.

# VIIRS – IASI Comparisons

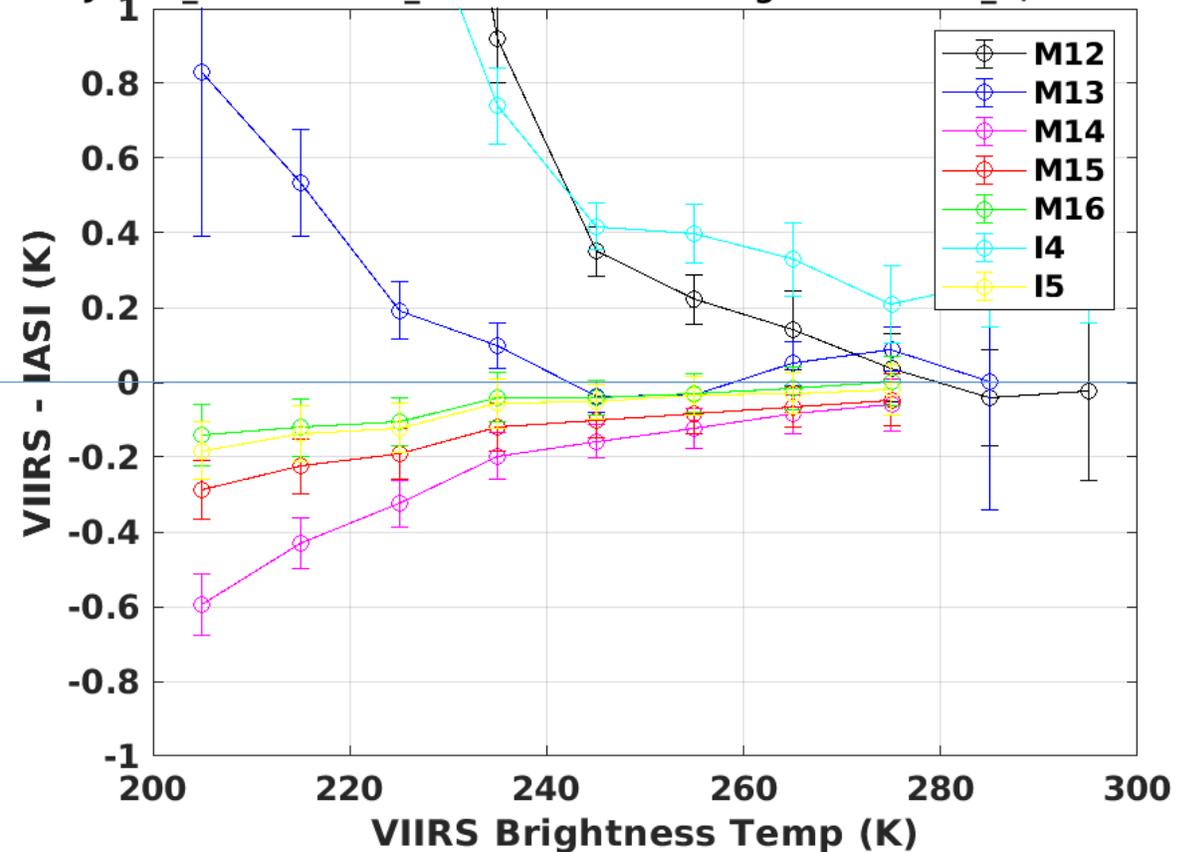
## SNPP

Mar28,2012 - Nov05,2019 SNOs: SNPP Avg VIIRS - IASI\_A; All Bands



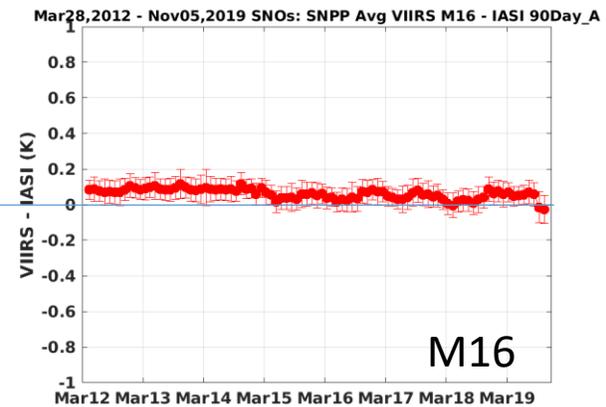
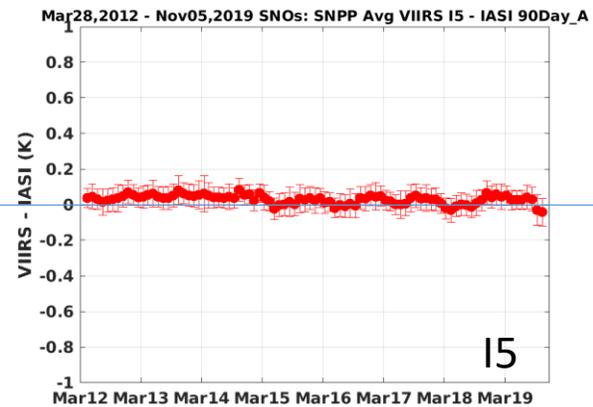
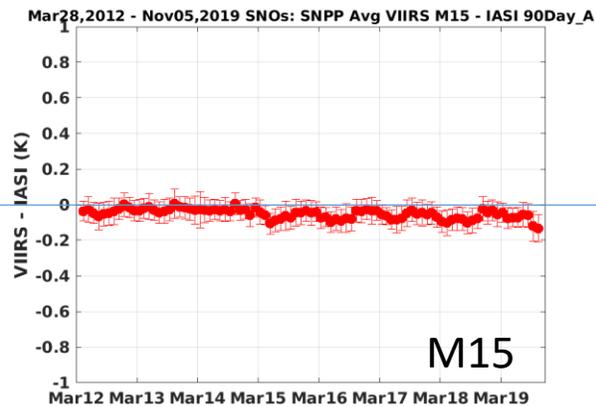
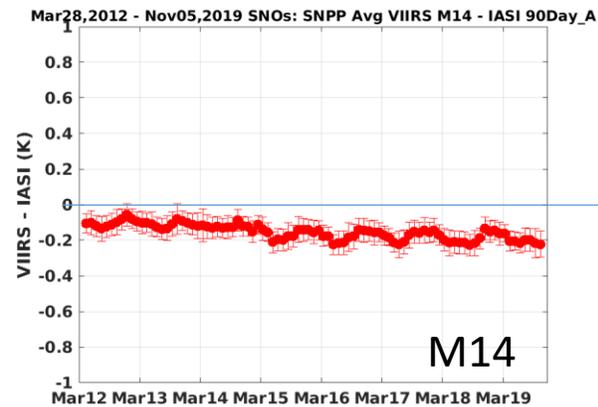
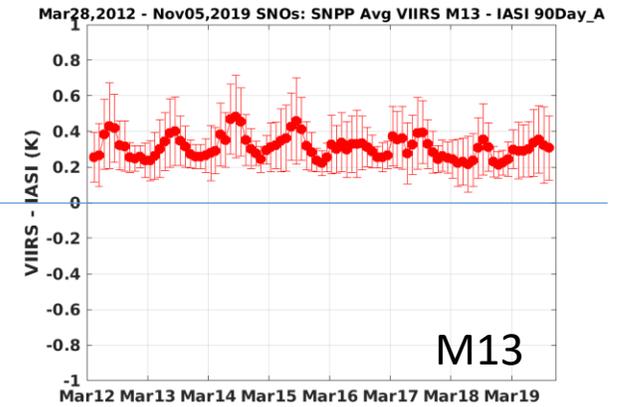
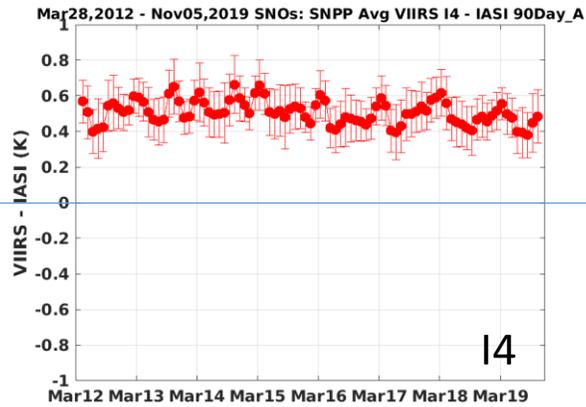
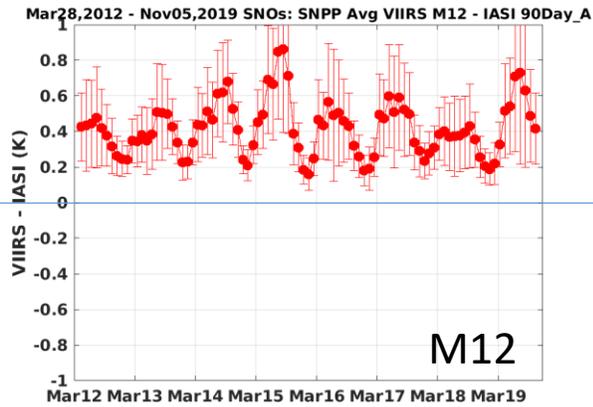
## N-20

Jan24\_2018-Nov05\_2019 SNOs: N20 Avg VIIRS - IASI\_A; All Bands

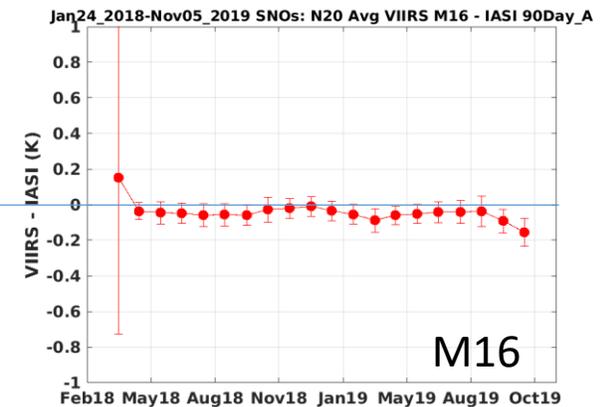
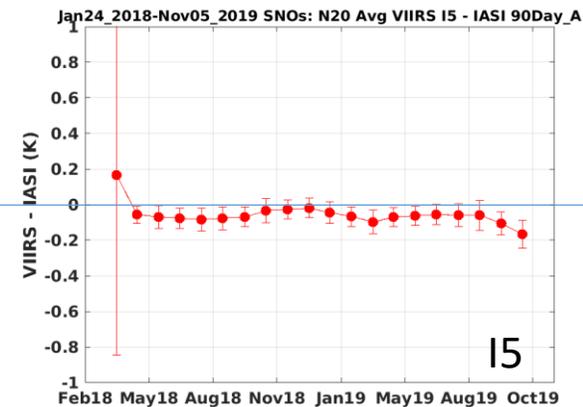
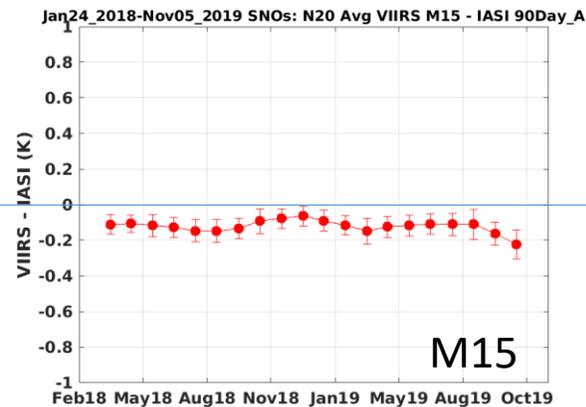
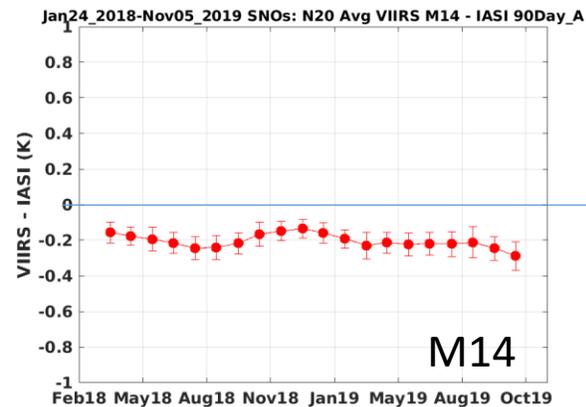
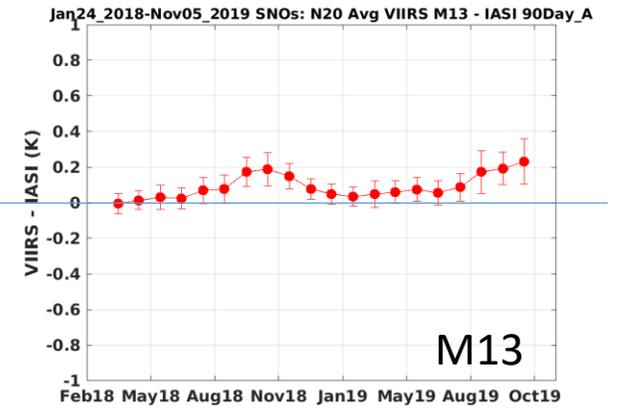
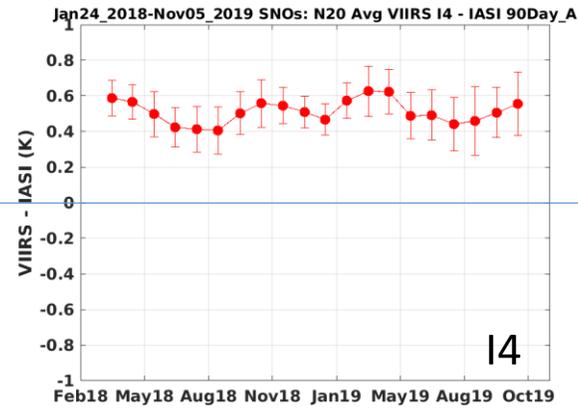
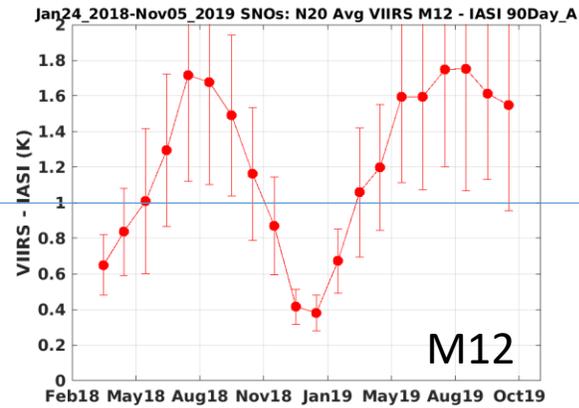


A LUT correction is planned for N-20 L1B processing that will reduce scene temperature dependence.

# SNPP VIIRS SNOs with MetOp-A IASI



# N-20 VIIRS SNOs with MetOp-A IASI



# Summary

- Terra MODIS shows trending in PVLWIR (B27-30) that could be problematical for climate studies. Electronic Xtalk likely remains root cause.
- Aqua MODIS trends more stable but watching PVLWIR.
- SNPP VIIRS trending well.
- Some differences in biases between SNPP and N-20 VIIRS as a function of scene temperature.